



Melancholia

by Arya Akhavan and Jordan Wilkins (January 2013)

Angles for R.I. = 1.720

49 + 12 girdles = 61 facets

2-fold, mirror-image symmetry

96 index

$L/W = 1.525$ $T/W = 0.508$ $U/W = 0.339$

$P/W = 0.563$ $C/W = 0.204$

$Vol./W^3 = 0.345$

PAVILION

P1	45.25°	05-43-53-91	Cut to centerpoint.
P2	45.02°	09-39-57-87	Meet at culet.
P3	42.00°	12-36-60-84	Meet at culet.
P4	63.77°	05-43-53-91	Set stone size (cut to appropriate depth)
P5	67.95°	06-42-54-90	Set stone size (meet P1, P2, P4)
P6	62.87°	09-39-57-87	Meet P1, P2, P4, P5
P7	58.90°	12-36-60-84	Meet P2, P3, P6
G1	90.00°	06-42-54-90	Set stone size.
G2	90.00°	09-39-57-87	Level girdle.
G3	90.00°	12-36-60-84	Level girdle.

CROWN

C1	61.82°	06-42-54-90	Level girdle.
C2	59.82°	09-39-57-87	Level girdle.
C3	58.63°	12-36-60-84	Level girdle.
C4	31.65°	96-48	Meet G3, C1
C6	21.82°	24-72	Meet G1, C3; C2, C3, C5
C5	20.00°	09-39-57-87	Meet C1, C2, C4
T	0.00°	Table	Meet C4, C5; C5, C6

This design started out as a bizarre, unusably-deep barion. Thanks to some inputs by Jordan Wilkins, this design has since become a usable, albeit a bit ordinary, rhomboid checkerboard with a coincidentally rhomboid shape. Works in materials from beryl to spinel (RI = 1.58 - 1.72), but I prefer it in purple-grey spinel.

Suggested length = 8-15 mm

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